

***F*flexion™**

HYDRAULIC HOSES & FITTINGS



YOUR
FLUID
POWER
SOLUTION



Flexion Centrifuge / H665E-20 / DN37

Flexion Centrifuge / H665E-20 / DN37



Flexion™

TABLE OF CONTENTS

Part 1 Hydraulic hoses

FLEXION™ Hydraulic hoses introduction 4

FLEXION™ Hydraulic hose range 5

THE FLEXION ENDURO™ SOLUTION PROVIDERS

FLEXION ENDURO™ H104E – EXCEEDS EN857 1SC 7

FLEXION ENDURO™ H204E – EXCEEDS EN857 2SC 8

FLEXION ENDURO™ H665E – EXCEEDS SAE 100R15 / ISO 18752 9

THE FLEXION™ INTERNATIONAL STANDARDS

FLEXION™ H100 – EN857 1SC 10

FLEXION™ H110 – EN853 1SN 11

FLEXION™ H200 – EN857 2SC 12

FLEXION™ H210 – EN853 2SN 13

FLEXION™ H420 – EN856 4SP 14

FLEXION™ H430 – EN856 4SH 15

Part 2 Hydraulic couplings

Hydraulic hose fittings introduction 16

Hydraulic hose fittings program overview 18

FlexionTM

HYDRAULIC HOSES

The vital link between hydraulic components in any system, hydraulic hose assemblies provide the flexibility, allowing the system to articulate whilst simplifying piping, ultimately balancing performance with system costs.

Containing rapidly flowing fluids at elevated temperature under dynamic pressure up to 420 bar, the hose you choose has to flex, resist abrasion and other mechanical impact.

It is often subjected to extreme weather influences as well.

The choice you make now can have a significant effect on your overall equipment reliability, safety and service life.

With a FLEXIONTM hose and coupling assembly, you get an optimised solution for your specific application.

There is no such thing as a typical installation.

There are a wide variety of industries using hydraulic systems and within each there are a multitude of applications, all with different conditions and requirements.

For this reason the FLEXIONTM program offers specific products with an array of advanced features, manufactured within stringent tolerances to provide the performance you and your customers insist on.

FLEXIONTM, INTERNATIONAL STANDARDS RANGE

Designed and manufactured to EN industry standards, FLEXIONTM offers a set of well-balanced benefits for the perfect solution for your everyday applications, where safety, reliability and a long service life are the prerequisite.

FLEXIONTM offers a perfect consistent quality, warranted by state of the art production processes for the hoses and fittings, combined with a vigorous impulse testing regime on the hose assemblies made from these components.

Another important feature of this program is the broad range of sizes and fitting styles, ensuring you can select the exact hose and fitting for your application and install it knowing that it will provide you with an optimal technical and economical solution.



FLEXION ENDURO™, SOLUTION PROVIDERS RANGE

Leading the FLEXION™ range are the FLEXION ENDURO™ hoses, which represent the best in class. These products offer extremely high performance levels, making them ideal for those troublesome areas or for the most severe and demanding hydraulic applications.

enduro

Proven up to 1,000,000 impulse cycles, this heavy duty hose has been designed to withstand extremely high dynamic pressure loading over a long life.

The use of the advanced ENDURO cover material provides a high resistance to mechanical abrasion and ozone exposure.

FLEXION ENDURO PERFORMANCE COMPARED TO EN STANDARD

FLEXION ENDURO™		
Working Pressures		up to 40% higher
Impulse life		up to 5 x better
Minimum Bend Radius		up to 40% smaller
Abrasion Resistance Cover		10 x better
Ozone Resistance Cover		10 x better
Oil Resistance Tube		Excellent, incl. bio
Value		3 x better



A FLEXION hose assembly will offer you peace of mind!



FLEXION ENDURO™ H104E ONE WIRE COMPACT - EXCEEDS 1SC

improved pressure performance, cover quality and smaller bend radii

enduro

Recommended for:

- For applications requiring additional working pressure without the need for two wire construction.
- Easy to route for mobile applications.
- For applications where compact build and light weight are important.

TECHNICAL DATA

Tube:	Oil resistant synthetic rubber
Reinforcement:	One braid of high tensile steel wire
Cover:	Synthetic rubber, abrasion, ozone and weather resistant
Standards:	Exceeds EN 857 1SC, ISO 11237 1SC
Temperature range:	-40°C to +100°C
Insert type:	ZFA- family
Ferrule type:	Type ZFA10
Performance:	Exceeds EN 857 1SC Impulse tested performance to 700,000 cycles. The Enduro cover provides extremely high abrasion and ozone resistance. Offering 10 times better resistance.

FLEXION ENDURO™ H104E

FLEXION CODE	Bore Size			Hose OD mm	Maximum Working Pressure			Minimum Burst Pressure			Minimum Bend Radius mm	Weight kg / m
	inch	mm	DN		bar	Mpa	psi	bar	Mpa	psi		
H104E-04	1/4"	6.3	6	12.3	250	25	3620	1000	100	14480	50	0.18
H104E-05	5/16"	7.9	8	13.5	250	25	3620	1000	100	14480	55	0.21
H104E-06	3/8"	9.5	10	15.7	250	25	3620	1000	100	14480	60	0.25
H104E-08	1/2"	12.7	12	18.9	200	20	2890	800	80	11560	70	0.39
H104E-10	5/8"	15.9	16	22.4	150	15	2170	600	60	8680	90	0.41
H104E-12	3/4"	19.0	19	26.0	125	12.5	1810	500	50	7240	100	0.53
H104E-16	1"	25.4	25	33.7	110	11	1590	440	44	6360	180	0.74
H104E-20	1.1/4"	31.8	31	41.1	100	10	1450	400	40	5800	210	1.11
H104E-24	1.1/2"	38.1	38	48.6	90	9	1300	360	36	5200	300	1.39
H104E-32	2"	50.8	51	61.5	75	7.5	1085	300	30	4340	400	1.94



FLEXION ENDURO™ H204E TWO WIRE COMPACT - EXCEEDS 2SC

improved pressure performance, cover quality and smaller bend radii

enduro

Recommended for:

- For applications requiring additional working pressure and compact build.
- Performs extremely well in most harsh environments thanks to the abrasion and ozone resistant cover
- Can be used with mobile plant, injection moulding and quarrying applications.
- Easy to route and install in tight areas.

TECHNICAL DATA

Tube:	Oil resistant synthetic rubber
Reinforcement:	Two braids of high tensile steel wire
Cover:	Synthetic rubber, abrasion, ozone and weather resistant
Standards:	Exceeds EN 857 2SC, ISO 11237 2SC, SAE 100 R16
Temperature range:	-40°C to +100°C
Insert type:	ZFA- family
Ferrule type:	Type ZFA10
Performance:	Exceeds EN 857 2SC, superior bend radius, impulse tested performance to 1.000,000 cycles. The Enduro cover provides extremely high abrasion and ozone resistance. Offering 10 times better resistance.

FLEXION ENDURO™ H204E

FLEXION CODE	Bore Size			Hose OD mm	Maximum Working Pressure			Minimum Burst Pressure			Minimum Bend Radius mm	Weight kg / m
	inch	mm	DN		bar	Mpa	psi	bar	Mpa	psi		
H204E-04	1/4"	6.3	6	13.3	450	45	6520	1800	180	26080	50	0.29
H204E-05	5/16"	7.9	8	14.8	420	42	6080	1680	168	24320	60	0.33
H204E-06	3/8"	9.5	10	17.1	385	38.5	5570	1540	154	22280	70	0.42
H204E-08	1/2"	12.7	12	20.4	350	35	5070	1400	140	20280	80	0.57
H204E-10	5/8"	15.9	16	23.5	350	35	5070	1400	140	20280	90	0.67
H204E-12	3/4"	19.0	19	27.6	280	28	4050	1120	112	16200	120	0.87
H204E-16	1"	25.4	25	36.0	250	25	3620	1000	100	14480	140	1.39
H204E-20	1.1/4"	31.8	31	43.1	160	16	2310	640	64	9240	250	1.53
H204E-24	1.1/2"	38.1	38	50.6	125	12.5	1810	500	50	7240	260	2.12
H204E-32	2"	50.8	51	63.5	100	10	1440	400	40	5760	360	2.80



FLEXION ENDURO™ H665E MULTI SPIRAL - EXCEEDS R15

improved pressure performance, cover quality and smaller bend radii

enduro

Recommended for:

- Very high pressure and high impulse applications .
- Performs extremely well in most harsh environments thanks to the abrasion and ozone resistant cover.

TECHNICAL DATA

Tube:	Oil resistant synthetic rubber
Reinforcement:	Four or six layers of high tensile steel wire
Cover:	Synthetic rubber, abrasion, ozone and weather resistant
Standards:	Exceeds SAE 100 R15, ISO 18752 CC
Temperature range:	-40°C to +121°C
Insert type:	ZHA- family
Ferrule type:	Type ZHA42 for sizes -12 and -16 Type ZHA62 for sizes over -16
Performance:	Exceeds SAE 100 R15. Impulse tested performance to 1 million cycles. The Enduro cover provides extremely high abrasion and ozone resistance. Offering 10 times better resistance.

FLEXION ENDURO™ H665E

FLEXION CODE	Bore Size			Hose OD mm	Maximum Working Pressure			Minimum Burst Pressure			Minimum Bend Radius mm	Weight kg /m
	inch	mm	DN		bar	Mpa	psi	bar	Mpa	psi		
H665E-12	3/4"	19.0	19	32.0	420	42	6080	1680	168	24320	210	1.57
H665E-16	1"	25.4	25	38.7	420	42	6080	1680	168	24320	240	2.12
H665E-20	1.1/4"	31.8	31	49.7	420	42	6080	1680	168	24320	265	3.89
H665E-24	1.1/2"	38.1	38	57.8	420	42	6080	1680	168	24320	310	5.18
H665E-32	2"	50.8	51	72.0	420	42	6080	1680	168	24320	600	6.89



FLEXION™ H100

ONE WIRE COMPACT - 1SC

Recommended for:

- Medium pressure applications.
- Easy to route for mobile applications.
- Light weight.
- Strong performance in day to day applications.

TECHNICAL DATA

Tube:	Oil resistant synthetic rubber
Reinforcement:	One braid of high tensile steel wire
Cover:	Synthetic rubber, abrasion, ozone and weather resistance
Standards:	EN 857 1SC, ISO 11237 1SC
Temperature range:	-40°C to +100°C
Insert type:	ZFA- family
Ferrule type:	Type ZFA10

FLEXION™ H100

FLEXION CODE	Bore Size			Hose OD mm	Maximum Working Pressure			Minimum Burst Pressure			Minimum Bend Radius mm	Weight kg / m
	inch	mm	DN		bar	Mpa	psi	bar	Mpa	psi		
H100-04	1/4"	6.3	6	12.4	225	22.5	3270	900	90	13080	75	0.19
H100-05	5/16"	7.9	8	13.8	215	21.5	3110	860	86	12440	85	0.21
H100-06	3/8"	9.5	10	16.0	180	18	2615	720	72	10460	90	0.28
H100-08	1/2"	12.7	12	19.2	160	16	2320	640	64	9280	130	0.34
H100-10	5/8"	15.9	16	22.6	130	13	1890	520	52	7560	150	0.43
H100-12	3/4"	19.0	19	25.9	105	10.5	1530	420	42	6120	180	0.5
H100-16	1"	25.4	25	33.8	88	8.8	1280	352	35.2	5120	230	0.82



FLEXION™ H110

ONE WIRE - 1SN

Recommended for:

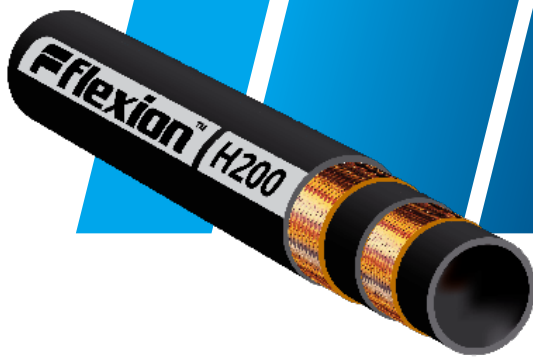
- For applications requiring improved kink resistance.
- For medium pressure requirements.
- For applications requiring conformity to EN853 1SN dimensions.

TECHNICAL DATA

Tube:	Oil resistant synthetic rubber
Reinforcement:	One braid of high tensile steel wire
Cover:	Synthetic rubber, abrasion, ozone and weather resistant
Standards:	EN 853 1SN, ISO 1436 1SN, SAE 100 R1AT
Temperature range:	-40°C to +100°C
Insert type:	ZFA- family
Ferrule type:	Type ZFA10

FLEXION™ H110

FLEXION CODE	Bore Size			Hose OD mm	Maximum Working Pressure			Minimum Burst Pressure			Minimum Bend Radius mm	Weight kg /m
	inch	mm	DN		bar	Mpa	psi	bar	Mpa	psi		
H110-04	1/4"	6.3	6	13.2	225	22.5	3270	900	90	13080	100	0.21
H110-05	5/16"	7.9	8	15.1	215	21.5	3110	860	86	12440	115	0.26
H110-06	3/8"	9.5	10	16.8	180	18	2615	720	72	10460	130	0.34
H110-08	1/2"	12.7	12	19.8	160	16	2320	640	64	9280	180	0.39
H110-10	5/8"	15.9	16	23.1	130	13	1890	520	52	7560	200	0.43
H110-12	3/4"	19.0	19	27.2	105	10.5	1530	420	42	6120	240	0.55
H110-16	1"	25.4	25	35.1	88	8.8	1280	352	35.2	5120	300	0.82
H110-20	1.1/4"	31.8	31	43.5	63	6.3	920	252	25.2	3680	420	1.27
H110-24	1.1/2"	38.1	38	50.8	50	5	730	200	20	2920	500	1.6
H110-32	2"	50.8	51	63.6	40	4	580	160	16	2320	630	2.2



FLEXION™ H200 TWO WIRE COMPACT - 2SC

Recommended for:

- High pressure applications.
- Strong performance in day to day applications.
- Easy to route and install in tight areas.

TECHNICAL DATA

Tube:	Oil resistant synthetic rubber
Reinforcement:	Two braids of high tensile steel wire
Cover:	Synthetic rubber, abrasion, ozone and weather resistant
Standards:	EN 857 2SC, ISO 11237 2SC, SAE 100 R16
Temperature range:	-40°C to +100°C
Insert type:	ZFA- family
Ferrule type:	Type ZFA10

FLEXION™ H200

FLEXION CODE	Bore Size			Hose OD mm	Maximum Working Pressure			Minimum Burst Pressure			Minimum Bend Radius mm	Weight Kg / m
	inch	mm	DN		bar	Mpa	psi	bar	Mpa	psi		
H200-04	1/4"	6.3	6	13.7	400	40	5800	1600	160	23200	75	0.28
H200-05	5/16"	7.9	8	15.1	350	35	5070	1400	140	20280	85	0.34
H200-06	3/8"	9.5	10	17.5	330	33	4800	1320	132	19200	90	0.41
H200-08	1/2"	12.7	12	21.0	275	27.5	4000	1100	110	16000	130	0.56
H200-10	5/8"	15.9	16	24.0	250	25	3630	1000	100	14520	170	0.64
H200-12	3/4"	19.0	19	27.8	215	21.5	3120	860	86	12480	200	0.81
H200-16	1"	25.4	25	35.7	165	16.5	2400	660	66	9600	250	1.25



FLEXION™ H210

TWO WIRE - 2SN

Recommended for:

- For applications requiring conformity to EN853 2SN dimensions
- For high pressure requirements.

TECHNICAL DATA

Tube:	Oil resistant synthetic rubber
Reinforcement:	Two braids of high tensile steel wire
Cover:	Synthetic rubber, abrasion, ozone and weather resistant
Standards:	EN 853 2SN, ISO 1436 2SN, SAE 100 R2AT
Temperature range:	-40°C to +100°C
Insert type:	ZFA- family
Ferrule type:	Type ZFA20

FLEXION™ H210

FLEXION CODE	Bore Size			Hose OD mm	Maximum Working Pressure			Minimum Burst Pressure			Minimum Bend Radius mm	Weight kg /m
	inch	mm	DN		bar	Mpa	psi	bar	Mpa	psi		
H210-04	1/4"	6.3	6	14.5	400	40	5800	1600	160	23200	100	0.33
H210-05	5/16"	7.9	8	16.3	350	35	5070	1400	140	20280	115	0.39
H210-06	3/8"	9.5	10	18.5	330	33	4800	1320	132	19200	130	0.57
H210-08	1/2"	12.7	12	21.6	275	27.5	4000	1100	110	16000	180	0.6
H210-10	5/8"	15.9	16	24.9	250	25	3630	1000	100	14520	200	0.7
H210-12	3/4"	19.0	19	29.0	215	21.5	3120	860	86	12480	240	0.86
H210-16	1"	25.4	25	37.1	165	16.5	2400	660	66	9600	300	1.26
H210-20	1.1/4"	31.8	31	48.3	125	12.5	1820	500	50	7280	420	2.04
H210-24	1.1/2"	38.1	38	54.6	90	9	1310	360	36	5240	500	2.3
H210-32	2"	50.8	51	66.9	80	8	1160	320	32	4640	630	3.16



FLEXION™ H420

MULTI SPIRAL - 4SP

Recommended for:

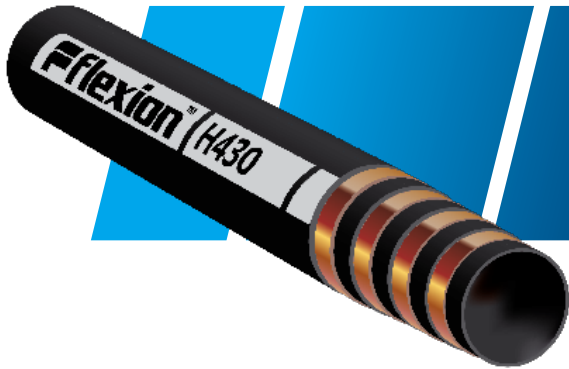
— Very high pressure applications.

TECHNICAL DATA

Tube:	Oil resistant synthetic rubber
Reinforcement:	Four layers of high tensile steel wire
Cover:	Synthetic rubber, abrasion, ozone and weather resistant
Standards:	EN 856 4SP, ISO 3862 4SP
Temperature range:	-40°C to +100°C
Insert type:	ZFA- family
Ferrule type:	Type ZFA40
Performance:	Improved oil resistance from NBR tube

FLEXION™ H420

FLEXION CODE	Bore Size			Hose OD mm	Maximum Working Pressure			Minimum Burst Pressure			Minimum Bend Radius mm	Weight kg /m
	inch	mm	DN		bar	Mpa	psi	bar	Mpa	psi		
H420-04	1/4"	6.3	6	17.8	450	45	6525	1800	180	26100	150	0.59
H420-06	3/8"	9.5	10	21.2	445	44,5	6450	1780	178	25800	180	0.79
H420-08	1/2"	12.7	12	24.3	415	41,5	6020	1660	166	24080	230	0.94
H420-10	5/8"	15.9	16	28.0	350	35	5070	1400	140	20280	250	1.13
H420-12	3/4"	19.0	19	32.0	350	35	5070	1400	140	20280	300	1.50
H420-16	1"	25.4	25	39.5	280	28	4060	1120	112	16240	340	2.15



FLEXION™ H430
MULTI SPIRAL - 4SH

Recommended for:

- Very high pressure and high impulse applications.

TECHNICAL DATA

Tube:	Oil resistant synthetic rubber
Reinforcement:	Four layers of high tensile steel wire
Cover:	Synthetic rubber, abrasion, ozone and weather resistant
Standards:	EN 856 4SH, ISO 3862 4SH
Temperature range:	-40°C to +100°C
Insert type:	ZHA- family
Ferrule type:	Type ZHA42
Performance:	Improved oil resistance from NBR tube

FLEXION™ H430

FLEXION CODE	Bore Size			Hose OD mm	Maximum Working Pressure			Minimum Burst Pressure			Minimum Bend Radius mm	Weight Kg /m
	inch	mm	DN		bar	Mpa	psi	bar	Mpa	psi		
H430-12	3/4"	19.0	19	32.0	420	42	6080	1680	168	24320	280	1.57
H430-16	1"	25.4	25	38.4	380	38	5500	1520	152	22000	340	2.1
H430-20	1.1/4"	31.8	31	45.8	350	35	5070	1400	140	20280	460	2.55
H430-24	1.1/2"	38.1	38	53.5	290	29	4200	1160	116	16800	560	3.23
H430-32	2"	50.8	51	68.0	250	25	3620	1000	100	14480	700	4.6

FlexionTM

HYDRAULIC HOSE FITTINGS INTRODUCTION

FLEXIONTM HYDRAULIC HOSE FITTINGS OFFER THE PERFECT SYSTEM SOLUTION WHEN USED IN COMBINATION WITH FLEXIONTM HIGH PRESSURE HOSES.

Hose assemblies constructed from FLEXIONTM branded components offer the highest level of performance in terms of reliability and durability of a high pressure connection.

Quality Assured

This performance enhancement is the result of FLEXIONTM hoses and FLEXIONTM hose fittings being jointly developed at the initial design and subsequent manufacturing stage. Quality is continuously monitored under a quality assurance process, ensuring that hose-to-fitting compatibility is not a matter of coincidence, but the result of a thorough quality process.

Highest Standards

All FLEXIONTM fittings are manufactured to conform to the highest international standards and meet the latest EU regulations on the restricted use of hazardous substances.

The Flexion standard of Zinc Nickel plating offers enhanced protection of more than 700 hours salt spray resistance before red rust.



**FLEXION™
STANDARD RANGE:**

Family code: ZFA
Suited for all braided FLEXION™ hoses and FLEXION™ 4SP hoses



**FLEXION™
INTERLOCK RANGE:**

Family code: ZHA
Suited for FLEXION™ 4SH hose and FLEXION ENDURO R15 hose

FLEXION™ GLOBAL HOSE FITTING CODING SCHEME - INSERTS








Example ZFA06SHS912

ZFA	Fitting Family
06	Hose size
S	End Connection Form
H	End Connection Type or Thread
S	Sealing Surface Type
9	Orientation
12	Connection Size




FLEXION™ GLOBAL HOSE FITTING CODING SCHEME - FERRULES

Example ZFA1016

ZFA	Fitting Family
10	Ferrule Type
16	Hose size

FLEXION™ Hose Fitting Program			Hose Size	04	05	06
			Fitting Family	ZFA	ZFA	ZFA
MATCHING HOSE	FERRULES	Type				
H100, H110, H200, H204E, H104E	No-Skive 1SC, 2SC, 1SN	ZFA10		ZFA1004	ZFA1005	ZFA1006
H210	No-Skive 2SN	ZFA20		ZFA2004	ZFA2005	ZFA2006
H110	Skive 1SN	ZFA11		ZFA1104	ZFA1105	ZFA1106
H210	Skive 2SN	ZFA21		ZFA2104	ZFA2105	ZFA2106
H420	Skive 4SP	ZFA40		ZFA4004	ZFA4005	ZFA4006
H430, H665E (12)	Interlock 4 spiral	ZHA42				
H665E (16, 20, 24, 32)	Interlock 6 spiral	ZHA62				
FITTINGS			Type			
	BSP Male		Thread	BSP 1/4"	BSP 3/8"	BSP 3/8"
		MBP	Straight	ZFA04MBP04	ZFA05MBP06	ZFA06MBP06
	BSP Female Swivel		Thread	BSP 1/4"	BSP 3/8"	BSP 3/8"
		SBP	Straight	ZFA04SBP04	ZFA05SBP06	ZFA06SBP06
		SBP4	45°	ZFA04SBP404	ZFA05SBP406	ZFA06SBP406
		SBP9	90°	ZFA04SBP904	ZFA05SBP906	ZFA06SBP906
	BSPT Male		Thread	BSPT 1/4"	BSPT 3/8"	BSPT 3/8"
		MBT	Straight	ZFA04MBT04	ZFA05MBT06	ZFA06MBT06
	NPTF Male		Thread	NPTF 1/4"	NPTF 3/8"	NPTF 3/8"
		MNP	Straight	ZFA04MNP04	ZFA05MNP06	ZFA06MNP06
	JIC Male		Thread	7/16-20 UNF	9/16-18 UNF	9/16-18 UNF
		MUJ	Straight	ZFA04MUJ04	ZFA05MUJ06	ZFA06MUJ06
	JIC Female Swivel		Thread	7/16-20 UNF	9/16-18 UNF	9/16-18 UNF
		SUJ	Straight	ZFA04SUJ04	ZFA05SUJ06	ZFA06SUJ06
		SUJ4	45°	ZFA04SUJ404	ZFA05SUJ406	ZFA06SUJ406
		SUJ9	90°	ZFA04SUJ904	ZFA05SUJ906	ZFA06SUJ906
	CEL		Pipe OD	8L	10L	12L
			Thread	M14x1,5	M16x1,5	M18x1,5
		MLD	Straight	ZFA04MLD08	ZFA05MLD10	ZFA06MLD12
	CES		Pipe OD	10S	12S	12S
			Thread	M18x1,5	M20x1,5	M20x1,5
		MHD	Straight	ZFA04MHD10	ZFA05MHD12	ZFA06MHD12
	DKOL		Pipe OD	8L	10L	12L
			Thread	M14x1,5	M16x1,5	M18x1,5
		SLS	Straight	ZFA04SLS08	ZFA05SLS10	ZFA06SLS12
		SLS4	45°	ZFA04SLS408	ZFA05SLS410	ZFA06SLS412
		SLS9	90°	ZFA04SLS908	ZFA05SLS910	ZFA06SLS912
	DKOS		Pipe OD	10S	12S	12S
			Thread	M18x1,5	M20x1,5	M20x1,5
		SHS	Straight	ZFA04SHS10	ZFA05SHS12	ZFA06SHS12
		SHS4	45°	ZFA04SHS410	ZFA05SHS412	ZFA06SHS412
		SHS9	90°	ZFA04SHS910	ZFA05SHS912	ZFA06SHS912
	ORFS Male		Thread	9/16-18 UNF	11/16-16 UNF	11/16-16 UNF
		MUS	Straight	ZFA04MUS06	ZFA05MUS09	ZFA06MUS09
	ORFS Female		Thread	9/16-18 UNF	11/16-16 UNF	11/16-16 UNF
		SUF	Straight	ZFA04SUF06	ZFA05SUF09	ZFA06SUF09
		SUF4	45°	ZFA04SUF406	ZFA05SUF409	ZFA06SUF409
		SUF9	90°	ZFA04SUF906	ZFA05SUF909	ZFA06SUF909
	SAE Flange code 61		Flange OD			
		FLL	Straight			
		FLL4	45°			
		FLL9	90°			
	SAE Flange code 62		Flange OD			
		FLH	Straight			
		FLH4	45°			
		FLH9	90°			

08	10	12	12	16	16
ZFA	ZFA	ZFA	ZHA	ZFA	ZHA
ZFA1008	ZFA1010	ZFA1012		ZFA1016	
ZFA2008	ZFA2010	ZFA2012		ZFA2016	
ZFA1108	ZFA1110	ZFA1112		ZFA1116	
ZFA2108	ZFA2110	ZFA2112		ZFA2116	
ZFA4008	ZFA4010	ZFA4012		ZFA4016	
			ZHA4212		ZHA4216
					ZHA6216
BSP 1/2"	BSP 5/8"	BSP 3/4"	BSP 3/4"	BSP 1"	BSP 1"
ZFA08MBP08	ZFA10MBP10	ZFA12MBP12	ZHA12MBP12	ZFA16MBP16	ZHA16MBP16
BSP 1/2"	BSP 5/8"	BSP 3/4"	BSP 3/4"	BSP 1"	BSP 1"
ZFA08SBP08	ZFA10SBP10	ZFA12SBP12	ZHA12SBP12	ZFA16SBP16	ZHA16SBP16
ZFA08SBP408	ZFA10SBP410	ZFA12SBP412	ZHA12SBP412	ZFA16SBP416	ZHA16SBP416
ZFA08SBP908	ZFA10SBP910	ZFA12SBP912	ZHA12SBP912	ZFA16SBP916	ZHA16SBP916
BSPT 1/2"	BSPT 5/8"	BSPT 3/4"	BSPT 3/4"	BSPT 1"	BSPT 1"
ZFA08MBT08	ZFA10MBT10	ZFA12MBT12	ZHA12MBT12	ZFA16MBT16	ZHA16MBT16
NPTF 1/2"	NPTF 5/8"	NPTF 3/4"	NPTF 3/4"	NPTF 1"	NPTF 1"
ZFA08MNP08	ZFA10MNP10	ZFA12MNP12	ZHA12MNP12	ZFA16MNP16	ZHA16MNP16
3/4-16 UNF	7/8-14 UNF	1.1/16-12 UNF	1.1/16-12 UNF	1.5/16-12 UNF	1.5/16-12 UNF
ZFA08MUJ08	ZFA10MUJ10	ZFA12MUJ12	ZHA12MUJ12	ZFA16MUJ16	ZHA16MUJ16
3/4-16 UNF	7/8-14 UNF	1.1/16-12 UNF	1.1/16-12 UNF	1.5/16-12 UNF	1.5/16-12 UNF
ZFA08SUJ08	ZFA10SUJ10	ZFA12SUJ12	ZHA12SUJ12	ZFA16SUJ16	ZHA16SUJ16
ZFA08SUJ408	ZFA10SUJ410	ZFA12SUJ412	ZHA12SUJ412	ZFA16SUJ416	ZHA16SUJ416
ZFA08SUJ908	ZFA10SUJ910	ZFA12SUJ912	ZHA12SUJ912	ZFA16SUJ916	ZHA16SUJ916
15L	18L	22L	22L	28L	28L
M22x1,5	M26x1,5	M30x2	M30x2	M36x2	M36x2
ZFA08MLD15	ZFA10MLD18	ZFA12MLD22	ZHA12MLD22	ZFA16MLD28	ZHA16MLD28
16S	20S	25S	25S	30S	30S
M24x1,5	M30x2	M36x2	M36x2	M42x2	M42x2
ZFA08MHD16	ZFA10MHD20	ZFA12MHD25	ZHA12MHD25	ZFA16MHD30	ZHA16MHD30
15L	18L	22L	22L	28L	28L
M22x1,5	M26x1,5	M30x2	M30x2	M36x2	M36x2
ZFA08SLS15	ZFA10SLS18	ZFA12SLS22	ZHA12SLS22	ZFA16SLS28	ZHA16SLS28
ZFA08SLS415	ZFA10SLS418	ZFA12SLS422	ZHA12SLS422	ZFA16SLS428	ZHA16SLS428
ZFA08SLS915	ZFA10SLS918	ZFA12SLS922	ZHA12SLS922	ZFA16SLS928	ZHA16SLS928
16S	20S	25S	25S	30S	30S
M24x1,5	M30x2	M36x2	M36x2	M42x2	M42x2
ZFA08SHS16	ZFA10SHS20	ZFA12SHS25	ZHA12SHS25	ZFA16SHS30	ZHA16SHS30
ZFA08SHS416	ZFA10SHS420	ZFA12SHS425	ZHA12SHS425	ZFA16SHS430	ZHA16SHS430
ZFA08SHS916	ZFA10SHS920	ZFA12SHS925	ZHA12SHS925	ZFA16SHS930	ZHA16SHS930
13/16-16 UNF	1-14 UNF	1.3/16-12 UNF	1.3/16-12 UNF	1.7/16-12 UNF	1.7/16-12 UNF
ZFA08MUS11	ZFA10MUS13	ZFA12MUS14	ZHA12MUS14	ZFA16MUS15	ZHA16MUS15
13/16-16 UNF	1-14 UNF	1.3/16-12 UNF	1.3/16-12 UNF	1.7/16-12 UNF	1.7/16-12 UNF
ZFA08SUF11	ZFA10SUF13	ZFA12SUF14	ZHA12SUF14	ZFA16SUF15	ZHA16SUF15
ZFA08SUF411	ZFA10SUF413	ZFA12SUF414	ZHA12SUF414	ZFA16SUF415	ZHA16SUF415
ZFA08SUF911	ZFA10SUF913	ZFA12SUF914	ZHA12SUF914	ZFA16SUF915	ZHA16SUF915
30,2	38,1	38,1	38,1	44,5	44,5
ZFA08FLL08	ZFA10FLL12	ZFA12FLL12	ZHA12FLL12	ZFA16FLL16	ZHA16FLL16
ZFA08FLL408	ZFA10FLL412	ZFA12FLL412	ZHA12FLL412	ZFA16FLL416	ZHA16FLL416
ZFA08FLL908	ZFA10FLL912	ZFA12FLL912	ZHA12FLL912	ZFA16FLL916	ZHA16FLL916
31,7	41,3	41,3	41,3	47,6	47,6
ZFA08FLH08	ZFA10FLH12	ZFA12FLH12	ZHA12FLH12	ZFA16FLH16	ZHA16FLH16
ZFA08FLH408	ZFA10FLH412	ZFA12FLH412	ZHA12FLH412	ZFA16FLH416	ZHA16FLH416
ZFA08FLH908	ZFA10FLH912	ZFA12FLH912	ZHA12FLH912	ZFA16FLH916	ZHA16FLH916

FLEXION™ Hose Fitting Program			Hose Size	20	20	24
			Fitting Family	ZFA	ZHA	ZFA
MATCHING HOSE	FERRULES	Type				
H100, H110, H200, H204E, H104E	No-Skive 1SC, 2SC, 1SN	ZFA10		ZFA1020		ZFA1024
H210	No-Skive 2SN	ZFA20		ZFA2020		ZFA2024
H110	Skive 1SN	ZFA11		ZFA1120		ZFA1124
H210	Skive 2SN	ZFA21		ZFA2120		ZFA2124
H420	Skive 4SP	ZFA40		ZFA4020		ZFA4024
H430, H665E (12)	Interlock 4 spiral	ZHA42			ZHA4220	
H665E (16, 20, 24, 32)	Interlock 6 spiral	ZHA62			ZHA6220	
FITTINGS			Type			
	BSP Male		Thread	BSP 1.1/4"	BSP 1.1/4"	BSP 1.1/2"
		MBP	Straight	ZFA20MBP20	ZHA20MBP20	ZFA24MBP24
	BSP Female Swivel		Thread	BSP 1.1/4"	BSP 1.1/4"	BSP 1.1/2"
		SBP	Straight	ZFA20SBP20	ZHA20SBP20	ZFA24SBP24
		SBP4	45°	ZFA20SBP420	ZHA20SBP420	ZFA24SBP424
		SBP9	90°	ZFA20SBP920	ZHA20SBP920	ZFA24SBP924
	BSPT Male		Thread	BSPT 1.1/4"	BSPT 1.1/4"	BSPT 1.1/2"
		MBT	Straight	ZFA20MBT20	ZHA20MBT20	ZFA24MBT24
	NPTF Male		Thread	NPTF 1.1/4"	NPTF 1.1/4"	NPTF 1.1/2"
		MNP	Straight	ZFA20MNP20	ZHA20MNP20	ZFA24MNP24
	JIC Male		Thread	1.5/8-12 UNF	1.5/8-12 UNF	1.7/8-12 UNF
		MUJ	Straight	ZFA20MUJ20	ZHA20MUJ20	ZFA24MUJ24
	JIC Female Swivel		Thread	1.5/8-12 UNF	1.5/8-12 UNF	1.7/8-12 UNF
		SUJ	Straight	ZFA20SUJ20	ZHA20SUJ20	ZFA24SUJ24
		SUJ4	45°	ZFA20SUJ420	ZHA20SUJ420	ZFA24SUJ424
		SUJ9	90°	ZFA20SUJ920	ZHA20SUJ920	ZFA24SUJ924
	CEL		Pipe OD	35L	35L	42L
			Thread	M45x2	M45x2	M52x2
		MLD	Straight	ZFA20MLD35	ZHA20MLD35	ZFA24MLD42
	CES		Pipe OD	38S	38S	38S
			Thread	M52x2	M52x2	M52x2
		MHD	Straight	ZFA20MHD38	ZHA20MHD38	ZFA24MHD38
	DKOL		Pipe OD	35L	35L	42L
			Thread	M45x2	M45x2	M52x2
		SLS	Straight	ZFA20SLS35	ZHA20SLS35	ZFA24SLS42
		SLS4	45°	ZFA20SLS435	ZHA20SLS435	ZFA24SLS442
		SLS9	90°	ZFA20SLS935	ZHA20SLS935	ZFA24SLS942
	DKOS		Pipe OD	38S	38S	38S
			Thread	M52x2	M52x2	M52x2
		SHS	Straight	ZFA20SHS38	ZHA20SHS38	ZFA24SHS38
		SHS4	45°	ZFA20SHS438	ZHA20SHS438	ZFA24SHS438
		SHS9	90°	ZFA20SHS938	ZHA20SHS938	ZFA24SHS938
	ORFS Male		Thread	1.11/16-12 UNF	1.11/16-12 UNF	2-12 UNF
		MUS	Straight	ZFA20MUS21	ZHA20MUS21	ZFA24MUS32
	ORFS Female		Thread	1.11/16-12 UNF	1.11/16-12 UNF	2-12 UNF
		SUF	Straight	ZFA20SUF21	ZHA20SUF21	ZFA24SUF32
		SUF4	45°	ZFA20SUF421	ZHA20SUF421	ZFA24SUF432
		SUF9	90°	ZFA20SUF921	ZHA20SUF921	ZFA24SUF932
	SAE Flange code 61		Flange OD	50,8	50,8	60,3
		FLL	Straight	ZFA20FLL20	ZHA20FLL20	ZFA24FLL24
		FLL4	45°	ZFA20FLL420	ZHA20FLL420	ZFA24FLL424
		FLL9	90°	ZFA20FLL920	ZHA20FLL920	ZFA24FLL924
	SAE Flange code 62		Flange OD	54	54	63,5
		FLH	Straight	ZFA20FLH20	ZHA20FLH20	ZFA24FLH24
		FLH4	45°	ZFA20FLH420	ZHA20FLH420	ZFA24FLH424
		FLH9	90°	ZFA20FLH920	ZHA20FLH920	ZFA24FLH924

24	32	32
ZHA	ZFA	ZHA
	ZFA1032	
	ZFA2032	
	ZFA1132	
	ZFA2132	
	ZFA4032	
ZHA4224		ZHA4232
ZHA6224		ZHA6232
BSP 1.1/2"	BSP 2"	BSP 2"
ZHA24MBP24	ZFA32MBP32	ZHA32MBP32
BSP 1.1/2"	BSP 2"	BSP 2"
ZHA24SBP24	ZFA32SBP32	ZHA32SBP32
ZHA24SBP424	ZFA32SBP432	ZHA32SBP432
ZHA24SBP924	ZFA32SBP932	ZHA32SBP932
BSPT 1.1/2"	BSPT 2"	BSPT 2"
ZHA24MBT24	ZFA32MBT32	ZHA32MBT32
NPTF 1.1/2"	NPTF 2"	NPTF 2"
ZHA24MNP24	ZFA32MNP32	ZHA32MNP32
1.7/8-12 UNF	2.1/2-12 UNF	2.1/2-12 UNF
ZHA24MUJ24	ZFA32MUJ32	ZHA32MUJ32
1.7/8-12 UNF	2.1/2-12 UNF	2.1/2-12 UNF
ZHA24SUJ24	ZFA32SUJ32	ZHA32SUJ32
ZHA24SUJ424	ZFA32SUJ432	ZHA32SUJ432
ZHA24SUJ924	ZFA32SUJ932	ZHA32SUJ932
42L		
M52x2		
ZHA24MLD42		
38S		
M52x2		
ZHA24MHD38		
42L		
M52x2		
ZHA24SLS42		
ZHA24SLS442		
ZHA24SLS942		
38S		
M52x2		
ZHA24SHS38		
ZHA24SHS438		
ZHA24SHS938		
2-12 UNF		
ZHA24MUS32		
2-12 UNF		
ZHA24SUF32		
ZHA24SUF432		
ZHA24SUF932		
60,3	71,4	71,4
ZHA24FLL24	ZFA32FLL32	ZHA32FLL32
ZHA24FLL424	ZFA32FLL432	ZHA32FLL432
ZHA24FLL924	ZFA32FLL932	ZHA32FLL932
63,5	79,4	79,4
ZHA24FLH24	ZFA32FLH32	ZHA32FLH32
ZHA24FLH424	ZFA32FLH432	ZHA32FLH432
ZHA24FLH924	ZFA32FLH932	ZHA32FLH932



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